Service Master Plus Technical Data

CAN-bus Inputs
• 2 CANbus networks with 8 inputs each (16 total)
• Scanning Rate: 1 ms
• Input Impedance: 1 kΩ
• M12x1, 5 pin push-in connector

Analog Inputs
• Six SensoControl sensor inputs
• Parker Automatic Sensor Recognition
• Scanning Rate: 1 ms
• Input Impedance: 1 kΩ
• Add two additional sensors with SCMA-VADC adaptor
• Five-pin, push-pull connection

Digital Input/Output
• Active High: 7 to 24 VDC
• Active Low: Less than 1 VDC
• Input Impedance: 1 kΩ
• Output Current: -20 mA

Analog Inputs for Auxiliary Sensors
• Two analog inputs for measuring current and voltage
• Scanning Rate: 1 ms
• Voltage Measuring Range: -10 to +10VDC
• Current Measuring Range: 0/4 to 20mA
• Configurable as FAST-mode analog inputs, 0.1ms scanning rate

Functions
• Measuring mode: Start/stop, points, trigger
• Measurement: ACT, MIN and MAX
• Measurement display: Numerical, bar graph, pointer, curve graph
• Trigger: Slope, manual, level, window, time, logic, Pre-Trigger
• Remote operation via the Ethernet
• Acoustic notification at any incident

Measured Value Storage
• ~4,000,000 points per measurement
• 1,000,000,000 points total
• On board storage 64 MB
• External: Micro SD memory card slot
• External: USB mass storage device

Ambient Operating Conditions
• Ambient temperature: 32° to 112 F°
• Storage temperature: -10 to 140 F°
• Relative humidity: < 80 %
• Environmental test: IEC60068-2-32 (1 m, free fall)

Type of Protection
• IP64 (to EN60529) Power supply
• Internal Lithium ion pack, +7.4 VDC/4500 mAh
• Charge Time: 3 hours
• Run time with fully charged battery: 8 hours
• External: 110/240 VAC – 24 VDC/2500 mA
• Vehicle adapter cable as accessory (12/24 VDC)

Housing/Protective Sleeve
• Housing material: ABS/PC (thermoplastic)
• Housing protective sleeve material: TPE (thermoplastic elastomer)
• Dimensions (WxHxD): 257mm x 75mm x 181mm
• Weight: 1550g (basic model) 20

Input Module Accuracy
• Measurement Accuracy: ±0.25% FS
• Temp Error: 0.02% FS per °C

Display
• Visible Area: 115 x 86 mm
• Resolution: 640 x 480 pixels

Interfaces
• USB device type B
• USB host type A
• 10/100 base T Ethernet RJ45)

CAN-bus Pressure Transducer

Options
• Five measurement ranges: Vacuum to 8700 PSI, standardized
• Automatic sensor recognition
• Accuracy of 0.5% Full Scale (FS)
• Available with PD or EMA-style diagnostic couplings
• Color-coded for easy identification

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Transducer Technical Data

<table>
<thead>
<tr>
<th>Feature</th>
<th>PD**-0160-CAN</th>
<th>PD**-0600-CAN</th>
<th>PD**-1500-CAN</th>
<th>PD* 8-4000-CAN</th>
<th>PD**-6000-CAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring Range</td>
<td>-14.5 to 235 PSI</td>
<td>0 to 870 PSI</td>
<td>0 to 2175 PSI</td>
<td>0 to 5800 PSI</td>
<td>0 to 8700 PSI</td>
</tr>
<tr>
<td>Overload Pressure</td>
<td>434 PSI</td>
<td>1740 PSI</td>
<td>4350 PSI</td>
<td>11600 PSI</td>
<td>17400 PSI</td>
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<tr>
<td>Burst Pressure</td>
<td>2175 PSI</td>
<td>7250 PSI</td>
<td>13050 PSI</td>
<td>17400 PSI</td>
<td>26100 PSI</td>
</tr>
<tr>
<td>Response Time</td>
<td>1 ms</td>
<td>1 ms</td>
<td>1 ms</td>
<td>1 ms</td>
<td>1 ms</td>
</tr>
<tr>
<td>Accuracy (Typical)</td>
<td>0.25%</td>
<td>0.25%</td>
<td>0.25%</td>
<td>0.25%</td>
<td>0.25%</td>
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<tr>
<td>Accuracy (Max)</td>
<td>0.50%</td>
<td>0.50%</td>
<td>0.50%</td>
<td>0.50%</td>
<td>0.50%</td>
</tr>
</tbody>
</table>

- Excitation Voltage: 8-40 VDC
- Electrical Connection: Five-pin, M 12x1 connection
- Port Connection: ½” BSPP
- Housing: Stainless steel 1.4301
- Seal Material: FKM

- Ambient Temperature Range: -13° to 185°F
- Max Fluid Temperature: 221°F
- Shock Resistance: IEC 68-2-29
- Vibration Resistance: IEC 68-2-6

CAN-bus Flow Sensors

Technical Data
- Excitation Voltage: 8–40 VDC
- Max Flow: 1.1x flow range
- Overload Pressure: 1.2x operating pressure
- Housing Material: Aluminum
- Seal Material: FKM
- Wetted Parts: Stainless steel
- Max Fluid Temperature: 194°F
- Ambient Temperature: 14°–122°F
- Filtration: 25um
- Viscosity Range: 10–100cSt

Features
- Four measurement ranges: 0.2 to 160 GPM
- Automatic sensor recognition
- Accuracy of 1% FS or IR
- Measures pressure, temperature, and flow
- Supplied with diagnostic and temperature measurement port

<table>
<thead>
<tr>
<th>Feature</th>
<th>SCFT-0004-**-CAN</th>
<th>SCFT-0116-**-CAN</th>
<th>SCFT-0380-**-CAN</th>
<th>SCFT-5160-**-CAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring Range</td>
<td>0.2 to 4 GPM</td>
<td>1 to 16 GPM</td>
<td>3 to 80 GPM</td>
<td>5 to 160 GPM</td>
</tr>
<tr>
<td>Accuracy @ 21cSt</td>
<td>1% FS</td>
<td>1% IR</td>
<td>1% IR</td>
<td>1% IR</td>
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<tr>
<td>OP Pressure</td>
<td>5000 PSI</td>
<td>5000 PSI</td>
<td>5000 PSI</td>
<td>4200 PSI</td>
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<tr>
<td>Port Connection</td>
<td>.5” BSPP</td>
<td>.75” BSPP</td>
<td>1” BSPP</td>
<td>1.25” BSPP</td>
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<tr>
<td>Pressure Drop @ FS 21cSt</td>
<td>21 PSI</td>
<td>21 PSI</td>
<td>58 PSI</td>
<td>72 PSI</td>
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<tr>
<td>Response Time</td>
<td>50 ms</td>
<td>50 ms</td>
<td>50 ms</td>
<td>50 ms</td>
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<tr>
<td>Length (Inch)</td>
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<td>7.48</td>
<td>8.35</td>
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<tr>
<td>Width (Inch)</td>
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<td>2.44</td>
<td>2.44</td>
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<tr>
<td>Height (Inch)</td>
<td>5.91</td>
<td>6.46</td>
<td>6.61</td>
<td>7.20</td>
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